

Michael B Steer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64
papers

839
citations

18
h-index

27
g-index

68
ext. papers

1,109
ext. citations

2.9
avg, IF

4.05
L-index

#	Paper	IF	Citations
64	Characterization of Intermodulation Distortion in Reconfigurable Liquid Metal Antennas. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018 , 17, 279-282	3.8	22
63	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 688-699	4.1	10
62	Power and temperature dependence of passive intermodulation distortion 2018 ,		4
61	Abstracted Random Mediums for Electromagnetic Hotspot Observation in Finite-Difference Time-Domain Simulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 1873-1879	4.1	2
60	Microstrip Passive Elements 2016 , 339-368		
59	Magnetic Materials and Planar Transmission Lines 2016 , 576-609		
58	Loss and Power-dependent Effects in Microstrip 2016 , 200-226		
57	Passive Intermodulation of Analog and Digital Signals on Transmission Lines With Distributed Nonlinearities: Modelling and Characterization. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 1383-1395	4.1	32
56	The Effect of Chaotic Vibrations on Antenna Characteristics. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016 , 15, 1242-1244	3.8	2
55	. <i>IEEE Transactions on Antennas and Propagation</i> , 2015 , 63, 474-482	4.9	35
54	An acoustic filter based on layered structure. <i>Applied Physics Letters</i> , 2015 , 106, 111903	3.4	27
53	Characterisation of nonlinear distortion and intermodulation in passive devices and antennas 2014 ,		15
52	Electromagnetic Properties of Disordered Three-Dimensional Mixtures. <i>IEEE Access</i> , 2013 , 1, 778-788	3.5	3
51	Automated Creation of Complex Three-Dimensional Composite Mixtures for Use in Electromagnetic Simulation. <i>IEEE Access</i> , 2013 , 1, 248-251	3.5	3
50	Sensitive Vibration Detection Using Ground-Penetrating Radar. <i>IEEE Microwave and Wireless Components Letters</i> , 2013 , 23, 680-682	2.6	3
49	Investigation of close-in passive intermodulation distortion on antennas 2013 ,		1
48	Passivity Enforcement for Admittance Models of Distributed Networks Using an Inverse Eigenvalue Method. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 8-20	4.1	6

47	High-Performance Solenoidal RF Transformers on High-Resistivity Silicon Substrates for 3D Integrated Circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 2066-2072	4.1	19
46	A Transient Electrothermal Analysis of Three-Dimensional Integrated Circuits. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2012 , 2, 660-667	1.7	6
45	Robust Analog Canceller for High-Dynamic-Range Radio Frequency Measurement. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 1709-1719	4.1	19
44	Analog Negative-Bias-Temperature-Instability Monitoring Circuit. <i>IEEE Transactions on Device and Materials Reliability</i> , 2012 , 12, 177-179	1.6	5
43	Characterization of the dynamic range of a single aperture communications system 2012 ,		2
42	Standoff Acoustic Modulation of Radio Frequency Signals in a Log-Periodic Dipole Array Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 885-888	3.8	5
41	A Highly Linear and Efficient CMOS RF Power Amplifier With a 2-D Circuit Synthesis Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 2851-2862	4.1	3
40	Parallel Transient Simulation of Multiphysics Circuits Using Delay-Based Partitioning. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2012 , 31, 1522-1535	2.5	3
39	Why it is so hard to find small radio frequency signals in the presence of large signals 2012 ,		1
38	Comparison of modeling techniques in circuit variability analysis. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2012 , 25, 288-302	1	8
37	Accurate and Scalable IO Buffer Macromodel Based on Surrogate Modeling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2011 , 1, 1240-1249	1.7	24
36	Distributed Passive Intermodulation Distortion on Transmission Lines. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 1190-1205	4.1	59
35	Surrogate-Model-Based Analysis of Analog Circuits Part II: Reliability Analysis. <i>IEEE Transactions on Device and Materials Reliability</i> , 2011 , 11, 466-473	1.6	17
34	Surrogate-Model-Based Analysis of Analog Circuits Part I: Variability Analysis. <i>IEEE Transactions on Device and Materials Reliability</i> , 2011 , 11, 458-465	1.6	21
33	Unified Understanding of RF Remote Probing. <i>IEEE Sensors Journal</i> , 2011 , 11, 3055-3063	4	24
32	Inverse Singular Value Method for Enforcing Passivity in Reduced-Order Models of Distributed Structures for Transient and Steady-State Simulation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 837-847	4.1	19
31	Automated Broadband High-Dynamic-Range Nonlinear Distortion Measurement System. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 1273-1282	4.1	45
30	Thermal analysis and verification of a mounted monolithic integrated circuit 2010 ,		4

29	A 6.2-6.5 GHz tunable bandpass filter with integrated Barium Strontium Titanate (BST) interdigitated varactors utilizing silver/copper metallization 2009 ,		1
28	Narrowband Barium Strontium Titanate (BST) tunable bandpass filters at X-band 2009 ,		4
27	Low distortion amplification of multisine signals using a time-frequency technique 2009 ,		1
26	MI017 - Integrated microwave frequency tunable bandpass filter using barium strontium titanate varactors 2008 ,		2
25	Wideband high dynamic range distortion measurement 2008 ,		3
24	Electro-Thermal Theory of Intermodulation Distortion in Lossy Microwave Components. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 2717-2725	4.1	76
23	Response of RF Networks to Transient Waveforms: Interference in Frequency-Hopped Communications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 2808-2814	4.1	40
22	Reflection Coefficient Shaping of a 5-GHz Voltage-Tuned Oscillator for Improved Tuning. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 2488-2494	4.1	4
21	Origin of the Half-Wavelength Errors in Microwave Measurements Using Through-Line Calibrations. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 1610-1615	5.2	4
20	Modeling the Nonlinear Response of Multitones With Uncorrelated Phase. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 2147-2156	4.1	5
19	Design for 3D Integration and Applications 2007 ,		4
18	High-Q Solenoidal Inductive Elements. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		5
17	Transceiver cascade system analysis and design via a contribution method. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2006 , 16, 338-345	1.5	3
16	Capturing asymmetrical spectral regrowth in RF systems using a multislice behavioral model and enhanced envelop transient analysis. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2006 , 16, 400-407	1.5	2
15	Voltage Controlled GaN-on-Si HFET Power Oscillator Using Thin-Film Ferroelectric Varactor Tuning 2006 ,		6
14	Behavioral Modeling of Quadrature Modulators for Characterization of Nonlinear Distortion 2006 ,		1
13	Electro-Thermal Passive Intermodulation Distortion in Microwave Attenuators 2006 ,		19
12	The applicability of Noise Power Ratio (NPR) in real communication signals 2006 ,		2

11	Discrete Barium Strontium Titanate (BST) Thin-Film Interdigital Varactors on Alumina: Design, Fabrication, Characterization, and Applications 2006 ,		13
10	A High K Nanocomposite for High Density Chip-to-Package Interconnections. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 833, 185		2
9	Mathematical foundations of frequency-domain modeling of nonlinear circuits and systems using the arithmetic operator method. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2003 , 13, 473-495	1.5	9
8	Printed antenna design for broadband waveguide-based spatial power combiners. <i>Microwave and Optical Technology Letters</i> , 2003 , 36, 411-415	1.2	
7	Nonlinear analysis methods for the simulation of digital wireless communication systems. <i>The International Executive</i> , 1996 , 6, 197-216		6
6	Diode characterization in a coaxial mount. <i>The International Executive</i> , 1993 , 3, 114-117		
5	A coaxial test fixture for characterizing low-impedance microwave two-terminal devices. <i>Microwave and Optical Technology Letters</i> , 1993 , 6, 197-200	1.2	2
4	Nonlinear circuit analysis using the method of harmonic balance— review of the art. Part I. Introductory concepts. <i>The International Executive</i> , 1991 , 1, 22-37		105
3	Nonlinear circuit analysis using the method of harmonic balance— review of the art. II. Advanced concepts. <i>The International Executive</i> , 1991 , 1, 159-180		43
2	Computer-aided analysis of nonlinear microwave circuits using frequency-domain nonlinear analysis techniques: The state of the art. <i>The International Executive</i> , 1991 , 1, 181-200		25
1	The relationship between bivariate volterra analysis and power series analysis with application to the behavioral modeling of microwave circuits. <i>The International Executive</i> , 1991 , 1, 253-262		3